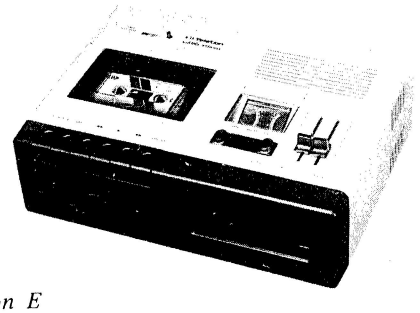
Teleton

SERVICE MANUAL

Stereo Cassette Deck

MODEL CD-50



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Specifications are subject to change without notice.

CASSETTE DECK ALIGNMENT PROCEDURE

1. Tape Speed Adjustment

Equipment Required:

1. Standard alignment tape of 3,000 Hz
2. Wow & Flutter Meter with Tape Speed Meter
3. Amplifier

Procedure:

a. Connect the deck and speakers to the amplifier.
b. Connect the Wow and Flutter meter to one of the speakers and playback the standard test tape.
c. Adjust *VR on the motor electronic governor circuit to indicate 3,000 Hz on the center frequency range of the meter.

* This VR is installed inside the motor case. Insert a small screw driver in the hole under the Motor. The VR is covered by a black rubber shroud, but there is a cross-shaped cut in the rubber to allow access to the VR.

2. Head Azimuth Alignment

Equipment Required:

1. Standard alignment tape of 6,300 Hz
2. VTVM or Output Meter

Procedure:

a. Connect the VTVM or Output Meter to one of the speakers and playback the test tape.
b. Adjust the azimuth alignment screw to obtain maximum output voltage on the VTVM or Output Meter.

3. Record Bias Adjustment

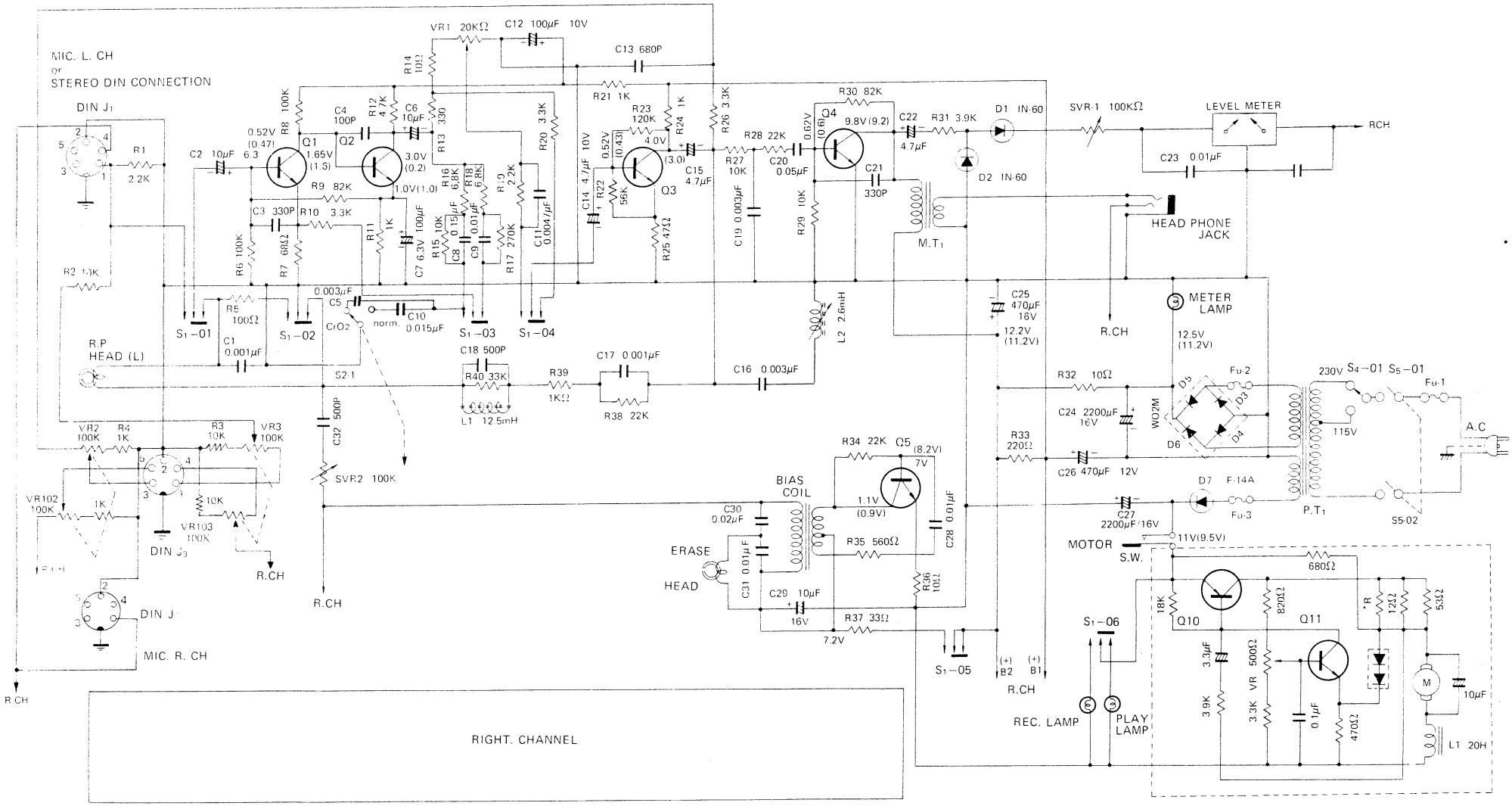
Equipment Required:

1. VTVM

Procedure:

a. Connect the VTVM to both sides of R5 on the printed circuit board for the left channel.
b. Set Selector Switch to Record Mode.
c. Adjust SVR_2 to obtain 45mV on the VTVM.
d. Change the connection to the right channel resistor and adjust SVR_{102} to obtain 45mV on the VTVM.

SCHEMATIC DIAGRAM



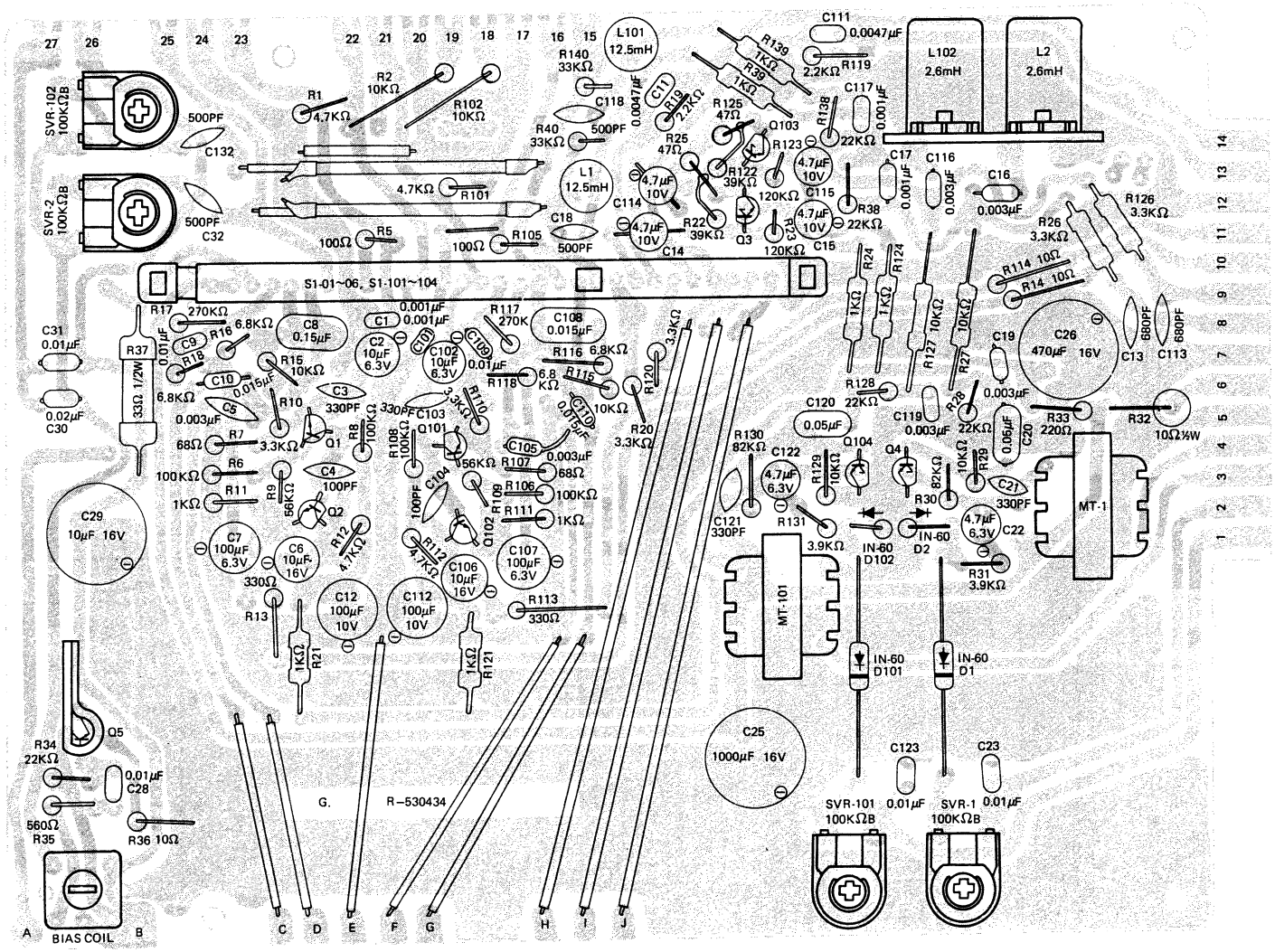
$Q_1 \sim Q_2$	2SC-900
$Q_3 \sim Q_4$	2SC-945 or 923
Q_5	2SD-261
Q_{10}	2SB-324
Q_{11}	2SC-828
$D_1 \sim 2$	1N-60
$D_3 \sim 6$	W02M or 1N-4002 x 4

S_1 01 ~ 06 : Rec/play Switch, play position

S_2 01 ~ 02 : Tape Selector Switch, normal position

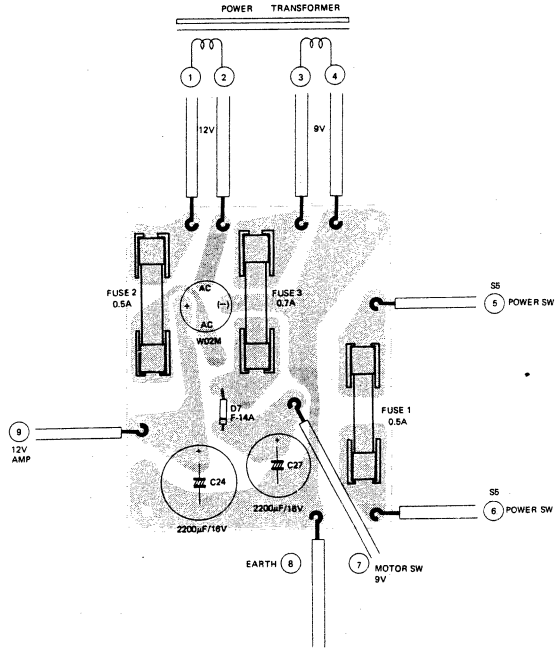
Voltage : Shown in playback mode.
( ) record mode.
Osc. circuit ( ) values are non-osc. values.

AMP P. C. BOARD (Top View)



Q1, 2, 101, 102 ..... 2SC–900
Q3, 4, 103, 104 ..... 2SC–945 or 923
Q5 ..... 2SD–261

POWER SUPPLY BOARD (Top View)



MAIN PARTS LIST

(Standard Parts as Resistors, Capacitors etc., not listed here.)

REF. NO.	PART NO.	DESCRIPTION
Chassis		
	R610392A	Main Chassis
	R610393A	Front Chassis
	R651880A	Deck Mounting Metal
	R439011	5P Din Jack
	R422047	Slide Switch 2 circuit 2 point 250V 1A
	R361147	Slide Control Volume A20K Ohm
	R429083	Push Switch 2 circuit 2 point 250V 4A
		Push Switch 50V 0.5A 2 circuit 2 point
	R590068	Level Meter
	R411111	Pilot Lamp 9V 40mA
	R651898	Door Holding Metal
	R361148	2 Gang Rotary Volume 100K Ohm A
	R851492	Switch Mask
	R851493	Volume Mask
	R830627	Meter Cushion
	R830584	Lamp Holder (for Meter)
	R439035	Headphone Jack
	R830589	Lamp Holder (for Play, Rec.)
	R110165	Power Transformer
	R510007	Cassette Deck Mecha. Ass'y
Power Supply Board		
		Silicon Rectifier W02M or 1N4002 x 4
		Silicon Rectifier F–14A
	R412027	Fuse L = 30mm 0.5A
	R412030	Fuse L = 30mm 0.7A
Amp. P.C. Board		
	R422048	Slide Switch 10 circuit 2 point
	R130018	Matching Transformer P:4K Ohm S: 8 Ohm
	R382014	Semi-Fixed Variable Resistor B 100K Ohm
	R131004	Bias Osc. Coil
	R161002	Bias Trap Coil (Variable type)
	R161003	Bias Trap Coil (Fixed type)
Cabinet		
	R840698	Cabinet Cover (Silver)
	R840700	Cabinet Bottom Cover (Silver)
	R840760	Cabinet Cover (Black)
	R840761	Cabinet Bottom Cover (Black)
	R840765	Front Cabinet
	R811436	Meter Cover
	R871367	Lens Cover (Silver)
	R871473	Lens Cover (Black)
	R871399	Volume Knob (Black)
	R871405	Select Knob (Black)
	R871472	Switch Hole Cover (Black)
	R871368	Lens (rec)
	R871467	Lens (play)
	R871369	Door
Cassette Deck Mechanism		
1	201151-6	Chassis Ass'y
2	301160-8	Head Chassis Ass'y
3	404117-0	Rev. Cue Spring
4	18611150-3	Head Chassis Back Spring
5	401030-1	Plate Spring
6	401162-3	Pinch Roller Lever Ass'y
7	404114-2	Pinch Roller Spring
8	R461031	R/P Head WY-436
9	404111-0	Head Spring
10	R461032	Erase Head WY-241
11		
12-1	401152-0	Stop Lever
12-2	301153-0	REC Lever
12-3	401154-0	REW Lever
12-4	401155-0	PLAY Lever
12-5	401156-0	F.F Lever
12-6	401157-0	Pause Lever
13	401014-1	Brake Movement Plate
14	404320-0	Brake Movement Spring
15	402070-0	Guide
16	R811413A	Cassette Case
17	R700343	Cassette Pressure Spring
18	R700342	Cassette Up Spring (Coil Spring)
19	405122-0	Rubber Ring
20	401046-0	Cassette Up Stopper
21	R925001	Cassette Case Screw
22	401025-5	Rec. Safety Plate
23	402056-0	Rec. Safety Plate Shaft
24	404210-0	Rec. Safety Plate Spring
25	401026-1	Pause Lever
26	404109-0	Pause Arm Spring
27	401024-1	Pause Lock
28	404105-0	Pause Lock Spring

REF. NO.	PART NO.	DESCRIPTION
29	401033-0	Pause Arm
30	401021-1	Rev. Cue Lever
31	404117-0	Rev. Cue Spring
32	401158-1	Brake Arm Ass'y
33	404116-1	Brake Spring
34	R651881	Mecha. Cover
35	R811408	Cassette Button
36	R680289	Shaft for Cassette Button
37	404106	Lock Cam Spring
38	401011-0	Rev. Cue Cam
39	401009-4	FF. Rew. Cam
40	401598-0	P/R Cam
41	401010-2	Stop Cam
42	401013-0	Push Lever Guide
43	404107-0	Push Lever Spring
44	403099-0	Plastic Support
45	401022-1	Cassette Case Lock Lever
46	404109-0	Cassette Case Lock Spring
47	402086-0	Play Lever Bush
48	401027	Rev. Move. Plate
49	R421055	Leaf Switch LSA-1139B-2
50	R700344	Rec. Switch Spring (Board Spring)
101	R480038	DC Motor MH1-5R9B
102	401032-1	Motor Bracket
103	402232-0	Motor Pulley
104	405212-0	Square Belt
105	303179-6	Gear Holder Ass'y
106		
107		
108	401181-0	Fly Wheel Retainer
109	409130-0	Bearing Spacer
110	407125-0	Bearing
111	405118-2	Fly Wheel Belt
112	306123-4	Fly Wheel
113	401133-0	Pause Stopper
114	301177-1	Reel Table Chassis Ass'y
115	404484-0	Reel Table Pressure Spring
116	403090-4	Wheel
117	408127-1	Clutch Felt
118	404103-4	Motion Pulley Spring
119	408127-1	Clutch Felt
120	30388-6	Reel Table
121	403098-1	Reel Cap
122	303095-4	Motion Pulley
123	404104-1	Slide Plate Spring
124	401167-1	FF. Idler Lever Ass'y
125	404106-1	Spring
126	403097-0	FF. Rew. Idler
127	403097-0	FF. Rew. Idler
128	401169-1	Center Idler Lever Ass'y
129	404108-0	Center Idler Lever Spring
130	402086-0	Play Lever Bush
131	401164-0	Take Up Idler Arm (A) Ass'y
132	401165-2	Take Up Idler Arm (B) Ass'y
133	403096-0	Take Up Idler (L)
134	403093-1	Take Up Idler (S)
135	404112-3	Take Up Clutch Spring
136	408126-0	Take Up Clutch
137	402059-0	Take Up Idler Bush
138	401170-2	Rew. Idler Laver Ass'y
139	403097-1	FF. Rew. Idler
140	402086-0	Play Lever Bush
141	404382-0	Rew. Spring
142	T3A-R-2-10ϕ-5L	Counter
143	401211-2	Counter Bracket (B)
144	405120-2	Counter Belt
145	401073-3	Shut off Arm
146	403101-7	Shut off Lever
147	404107-0	Push Lever Spring
148	401034-1	Lod Guide
149	401178-0	Movement Lever Ass'y
150	401035-3	Lod
151	401036-2	Slide Plate
152	402086-0	Play Lever Bush

CASSETTE MECHANISM